

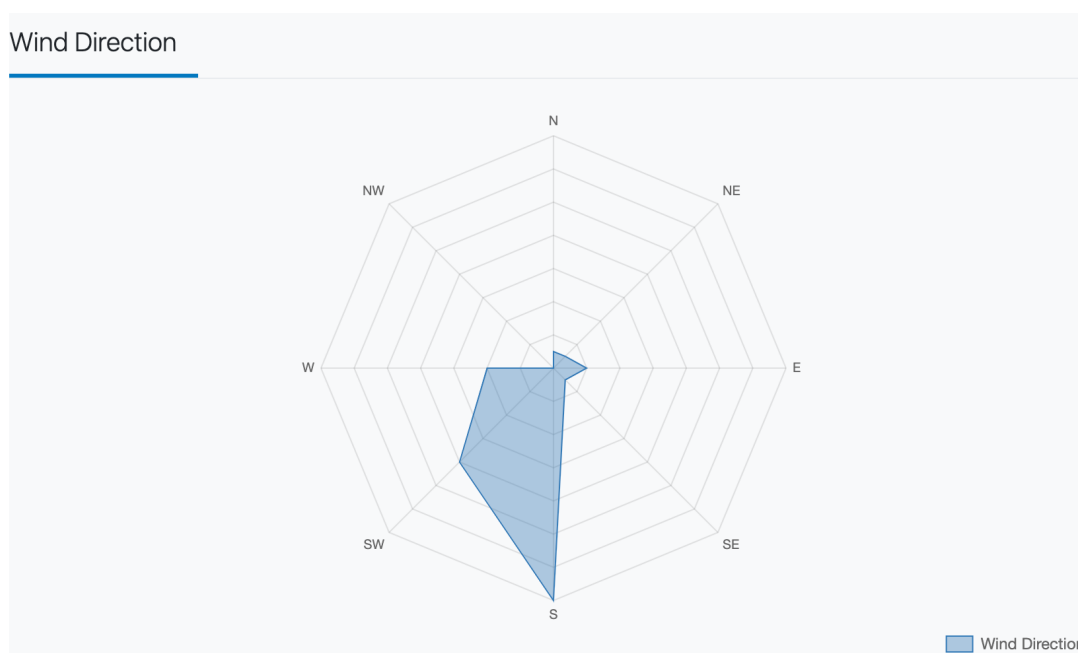
1.0. General

- 1.1. This Dust Emissions Management Plan supports the recovery permit variation on behalf of *Breedon Trading Ltd.* at Maes Mynan Quarry, Mold, Clwyd ('The Site') at grid reference SJ 12218 71975.
- 1.2. This document outlines the procedures to be implemented in order to assess and minimise the potential impacts from dust produced by The Site and the control measures in place to mitigate the risk.

2.0. Sources, Releases, and Impacts

- 2.1. The plan reference: *361/2-1* identifies The Site's location and boundary for the proposed recovery operation.
- 2.2. Any potential dust emissions are limited to the following activities:
- Transporting materials / site vehicles travelling along internal haul roads.
 - Unloading of materials.
 - Stockpiles of material stored on The Site.
 - Emplacement of waste and restoration materials.
- 2.3. The pathway for dust would be through emissions to air. The nearest sensitive receptors are Caerwys Tufa SSSI 160m east, Coed Trefraith SSSI 1km northeast, Ddol Uchaf SSSI 1.5km east, and Ancient Woodland immediately northeast and along the southwest boundary
- 2.4. The following Public Rights of Way are in close proximity to the site:
- Footpath 402/3A/100 runs along the northwest corner of the site.
 - Footpath 402/1/120 is approximately 140m west of the site.
- 2.5. The nearest residential properties are approximately 60m southeast (separated by woodland) and 160m southwest (separated by fields and the A541). Holiday park 160m west of site (separated by HGV storage yard) and transport lodgings within the industrial park immediately adjacent to the west.

- 2.6. Historical data taken from a nearby weather station to The Site¹ shows that the prevailing wind is predominately from the south-southwest (Figure 1). It is therefore highly likely that, should dust be mobilised to air and leave the site boundaries, any dust would be blown away from the nearest sensitive receptors, namely the residential properties, light industry, and lodgings, Caerwys Tufa SSSI and Ancient Woodlands. Nevertheless, mitigation measures are proposed, as described in section 3.0.



3.0. Dust Control Measures

- 3.1. A water bowser will be available on site for dust suppression in all climatic conditions. A road-sweeper is also available at The Site that, whilst primarily for ensuring mud is not deposited onto the highway, would also be used to remove and / or dampen any dry deposited materials on the tarmac areas of The Site's

¹ <https://meteostat.net/en/place/gb/caerwys?s=03313&t=2012-01-01/2022-12-31>

entrance.

3.2. A series of dust mitigation measures are implemented at the discretion of the Site Manager and as Conditioned by Planning Application ref: 054707(Conditions 14 and 15) to ensure dust emissions are controlled as far as is practically possible.

3.3. The measures include:

- 10mph speed limit for all vehicles travelling through The Site.
- A wheelwash has been installed for vehicles exiting The Site.
- Sheeting of vehicles transporting potentially dusty loads to the site, and all vehicles visually inspected upon entering and leaving The Site.
- The entrance to The Site is comprised of a sealed surface and a road sweeper will be regularly deployed.
- Site layout designed to minimise the transportation of material around The Site, and all other site haulage roads shall be maintained to a good condition to reduce dust emissions.
- Use of mobile bowser and water sprays to damp down stockpiles; vehicle running surfaces and vehicle loads to prevent excessive dust formation, especially during dry and windy conditions.
- Cleaning of any spillages using wet cleaning methods.
- Stockpiles kept to a minimum as operating conditions allow.
- Drop heights always minimised to prevent dust emissions.
- Regular maintenance of mobile plant.
- Exhausts of all new mobile plant introduced to the site to be directed away from the ground.

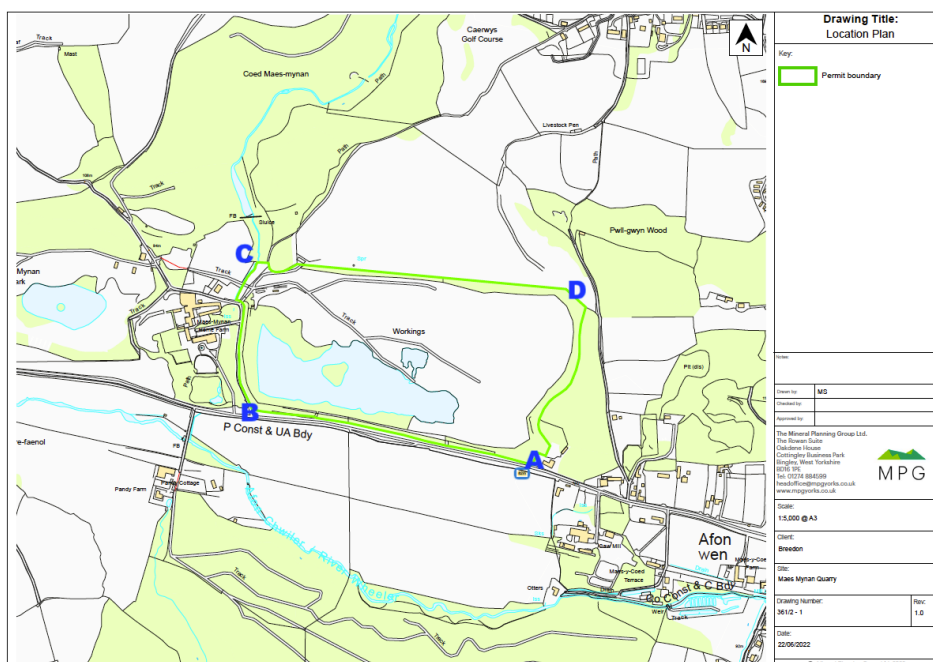
3.4. During unusually dry and / or windy conditions, and, at the discretion of the Site Manager, stockpiles (or other areas) that are generating dust would be wetted down. This would be carried out as often as is necessary to prevent excessive dust generation. During such exceptional weather conditions, the stockpiles would be wetted down before closing The Site each day, if it is considered that dust could be generated outside of operational hours.

- 3.5. Management will have regard to other dust sources and emissions in the vicinity of The Site (such as the commercial forest to the north, the A541, and agricultural fields to the south²), and will take appropriate measures to mitigate the impact of cumulative dust emissions.

4.0. Monitoring

- 4.1. All operational staff, as part of their induction, are made aware of their roles and responsibilities. Site operatives will continuously carry out visual dust emission inspections whilst The Site is in operation and will report to the Site Manager for advice if required. Where, in the opinion of the Site Manager, dust is being generated beyond an acceptable level, mitigation measures would be implemented.
- 4.2. A site daily check will be carried out around the full perimeter of The Site to assess for general dust emissions, also taking in static points A-D on the plan below. Monitoring will consist of observations being made for dust emissions and deposits of dust outside of The Site boundary around the full perimeter which will be reported in the site diary and to the Site Manager for further investigation.

² This is a non-exhaustive list.



- 4.3. Site Managers will assess the daily weather forecast at the beginning and middle of a shift as well as monitoring ongoing real-time changes to the weather. If wind speeds of over 11 m/s are predicted for that day, additional site monitoring observations will take place throughout the day (potential sources of dust will be identified, water suppression will be available and at least two checks will be carried out on the boundary of The Site in the direction of the wind on that day).
- 4.4. As well as visual monitoring for dust, The Site's boundary would be formally inspected daily to safeguard against material having the potential to cause a nuisance outside of the Site boundary. The site boundaries would be checked visually at least once before operations begin, during operations, and at the close of operations every day, and any mitigation measures required would be implemented immediately to prevent excessive dust being blown across the A500.
- 4.5. Dust emission incidents and any corrective action should be recorded in the site diary. The site diary should also record the following:
- Wind strength and direction.
 - Activities being carried out at the time of the incident.

- Nature of the emission (fine dust, grit, etc.).
- Extent of emission (density, distance travelled, etc.).
- Impact on any surrounding receptors.

5.0. Dust Contingency Measures

5.1. Elevated Dust Issues

- 5.1.1. Dust issues identified are reported to the Site Manager at the earliest opportunity and an investigation into the source of the elevated dust levels would be carried out at the earliest opportunity and, in any event, within one working day of it being reported. The outcome of the dust investigation and any proposed actions required will be reported in The Site diary and actioned at the earliest possible opportunity.
- 5.1.2. Any operational failings would be assessed to consider where retraining of staff may prevent or reduce the likelihood of an incident reoccurring and the retraining would be actioned at the earliest opportunity. Training will be documented in the site diary and a training record created and maintained with appropriate review dates specified.
- 5.1.3. Any dust monitoring that may be required as part of an investigation will be carried out by a suitable qualified consultant. The Site Manager will inform the Mineral Planning Authority / NRW, where necessary, during or after the process following an elevated dust issue complaint.

5.2. Reporting Measures

- 5.2.1. Any complaints or elevated dust issues will be recorded in the site diary.

6.0. Emergency Plans

- 6.1. An emergency with regards to dust management would be the loss of control of dust emissions which could have an unacceptable impact on the identified

sensitive receptors.

- 6.2. If an event is considered an emergency, the Site Manager would immediately assess the situation and a decision would be made as to whether the site should suspend operations until the elevated dust issue is controlled. The measures required would be considered on a case-by-case basis. Operations would not be restarted until an investigation into the cause of the emergency is completed, and any required operational or mitigation measures have been altered or updated.

6.3. Dust Complaint Procedure

- 6.3.1. Any complaints follow the operator's complaint procedure and are recorded in the site diary and on a complaint form. An investigation into the complaint will be actioned within one working day of receipt unless further information is required. All records will be retained electronically following complaints for the life of the operation.

- 6.3.2. An investigation will be carried out into the cause for the complaint and the complainant is contacted (where requested) with the outcome of the investigation and the action taken to prevent further incidents.

- 6.3.3. Management Plans should be reviewed following the receipt of complaints.

7.0. Responsibilities and Review

- 7.1. It is the responsibility of the Site Manager to oversee the operations on site and to be sufficiently trained and familiar with the management systems at The Site. The Site Manager will have the responsibility of ensuring that appropriate control measures are in place to reduce the potential for dust impact. Regular meetings will be held to discuss ongoing and planned operations that have the potential to generate elevated dust emissions and to review the previous monitoring and complaints that may have been received for The Site. Reviews of complaints and monitoring takes place with an aim to highlight areas of failure and to ultimately prevent dust emissions from leaving The Site.

- 7.2. The Dust Management Plan and associated control measures are reviewed on an

annual basis (from the date of issue) and / or following a complaint or elevated dust issue.

8.0. Training and Record keeping

8.1. All relevant staff who have responsibilities and authority for activities controlled by the site permit must have appropriate training to cover those activities above, the management of incidents, and the implications of failing to conform.

8.2. Training on the DEMP will take place annually for all exiting staff and as part of the induction for new members of staff.

8.3. All staff should have records detailing their roles, responsibilities and authorities in relation to permit requirements including the following:

- Manager check sheets
- Training records
- Job descriptions/responsibilities

8.4. All records (including staff training, monitoring, complaints, site diary etc) will be maintained preferably for the life of the site but at least for 6 years if not specified in the permit.

8.5. Records will be stored on site in a secure cabinet and electronically where necessary.

9.0. Summary

9.1. Whilst it is considered unlikely that operations at The Site would give rise to unacceptable dust emissions, particularly beyond The Site's boundaries, a range of appropriate mitigation measures are proposed to control dust emissions if considered necessary.